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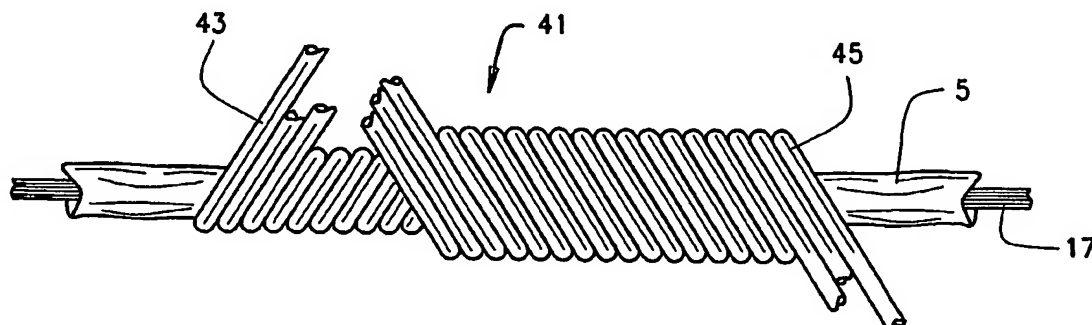
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(54) Title: YARNS, PARTICULARLY YARNS INCORPORATING RECYCLED MATERIAL, AND METHODS OF MAKING THEM



(57) Abstract: Enhanced performance yarns (41, 81) which comprise, and are functional and economic alternatives to, 100% petro-
leum oil based virgin continuous filament yarns, and yarns of natural fibers and methods of making them. The yarns may comprise
an inner portion of spun staple fibers of recycled plastic and an outer portion comprising a different material and incorporate highly
significant amounts of recycled plastics, particularly post consumer recycled (PCR), thermoplastic material such as polyethylene
terephthalate (PET) which contains medium to high levels of contamination. One embodiment of yarn comprises a core (17), an
inner portion (5) of spun staple fibers surrounding the core, and an outer portion (41) comprising an inner helix (43) and an outer
helix (45) formed of a material different from the inner helix.

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